

AMENDMENT C
(37 C.F.R. 1.116)

IN THE CLAIMS:

Please amend claims 1-4 in accordance with 37 C.F.R. 1.121. A marked-up version of the amended claims is attached herein on separate sheets and a clean version of the amended claims is also attached herein on separate sheets.

Please add new claims 28 - 31, attached herein on separate sheets.

Please cancel claims 8-11 without prejudice.

REMARKS

Pursuant to 37 C.F.R. §1.116, reconsideration of the instant application, as amended herewith, is respectfully requested. Entry of the amendment is requested.

Claims 1-4, 12-19 and 28-31 are presently pending before the Office. Claims 8-11 have been canceled. Applicants have amended claims 1-4 and added new claims 28-31. No new matter has been added. Support for the amendments can be found throughout the specification as originally filed, and in particular at Pages 1-2, 5 and in the Tables of pages 9-274. Applicants are not intending in any manner to narrow the scope of the originally filed claims.

The Examiner's Action mailed July 8, 2002 (Paper No. 11) and the references cited therein have been carefully studied by Applicant and the undersigned counsel. The amendments appearing herein and these explanatory remarks are believed to be fully responsive to the Action. Accordingly, this important patent application is believed to be in condition for allowance.

Relying on 35 U.S.C. §112, second paragraph, the Office has rejected the subject matter of the pending claims as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention. The Examiner alleges that it is unclear as to what molecular compound is being formed and the organic compound has not been identified. Applicants respectfully traverse the rejection and request reconsideration.

Applicants submits that the pending claims do define the legal metes and bounds of the invention. It is not the role of the claims to enable one skilled in the art to reproduce the invention but rather to define, for those skilled in the art the legal metes and bounds of the invention. Nevertheless, in order to advance the case to allowance, claims 1-4 have been amended to further clarify the claim limitations.

It is respectfully submitted that the pending claims in this response fully comply with 35 U.S.C. §112, second paragraph. Withdrawal of the rejection is respectfully requested.

CONCLUSION

Even though the initial claims in this important patent application were drawn to a new, useful and nonobvious invention, they have now been amended to increase their specificity of language. Applicant respectfully submits that the pending claims are patentable over the art of record.

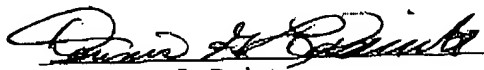
A Notice of Allowance is earnestly solicited.

If the Office is not fully persuaded as to the merits of Applicant's position, or if an

Examiner's Amendment would place the pending claims in condition for allowance, a telephone call to the undersigned at (727) 538-3800 would be appreciated.

Very respectfully,

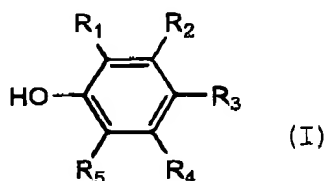
Dated: 10/7/02


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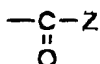
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MARKED-UP VERSION OF AMENDED CLAIMS

1. (Twice Amended) A molecular compound selected from the group consisting of hydrates, solvates, adducts and clathrate compounds prepared by the method of reacting a phenol derivative represented by Formula (I)



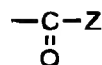
wherein R_1 and R_5 are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl or



wherein Y and Z are selected from the group consisting of alkyl having 1 to 8 carbons, alkenyl having 2 to 8 carbons, alkoxy having 1 to 6 carbons, hydroxyl, substituted amino, substituted cycloalkyl, substituted phenyl or substituted aralkyl;

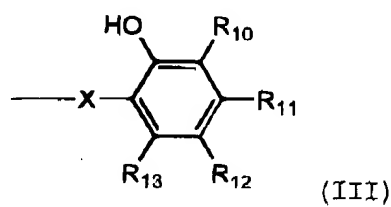
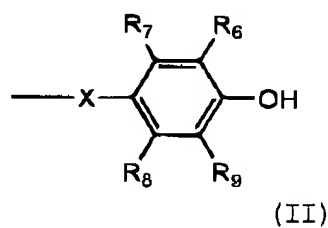
R_2 and R_4 are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons or

hydroxyl or

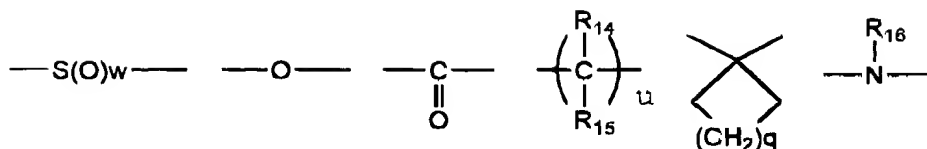


wherein Y and Z are as defined above, in case R_1 , R_3 or R_5 is alkoxy having 1 to 4 carbons or hydroxyl;

R_3 is selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl, Formula (II) or Formula (III)

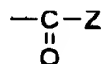


wherein X is selected from the group consisting of



wherein w is 0, 1 or 2; u is 0 or 1; q is 0 to 4; R₁₄ and R₁₅ are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl, optionally substituted phenyl or optionally substituted aralkyl; R₁₆ is selected from the group consisting of hydrogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl, substituted phenyl or substituted aralkyl;

R₆, R₉ and R₁₀ are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl, or



wherein Y and Z are as defined above;

R₇, R₈, R₁₁ and R₁₃ are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons or hydroxyl, but R₁₁ is selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl or



wherein Y and Z are as defined above in case R₁₂ is alkoxy having 1 to 4 carbons or hydroxyl;

R₁₂ is selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl or selected from the group consisting of

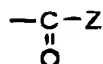


wherein Y and Z are as defined above, or selected from the group consisting of



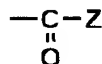
wherein Y and Z are as defined above, or

when R₃ is of Formula (II), one of R₁, R₅, R₆ and R₉ is selected from the group consisting of



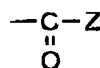
wherein Y and Z are as defined above

when R₃ is of Formula (III), at least one of R₁, R₅ and R₁₀ is selected from the group consisting of



where Y and Z are as defined above, and

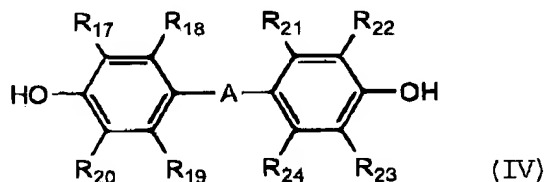
when R₃ is selected from a group other than the group consisting of Formula (II) or (III), either R₁ or R₅ is selected from the group consisting of



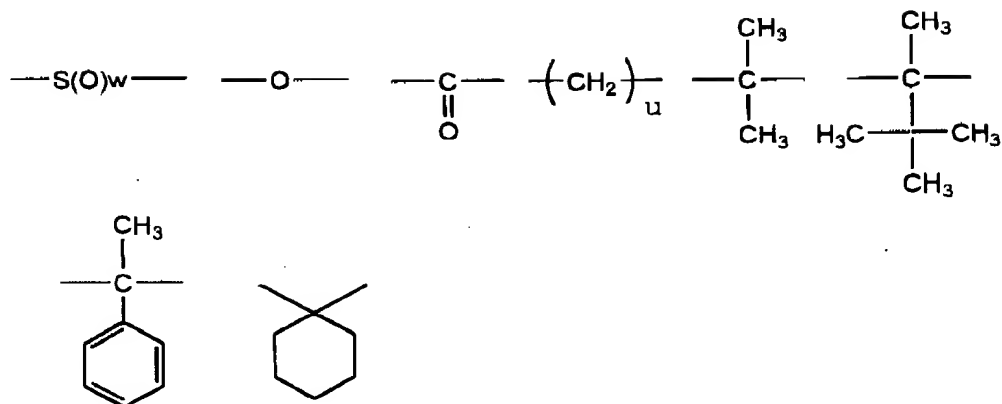
wherein Y and Z are as defined above, and

the phenol derivative is reacted with an organic compound under conditions sufficient to form [a] the molecular compound selected from the group consisting of hydrates, solvates, adducts and clathrate compounds having the phenol derivative as a constituent, the constituent being a host.

2. (Twice Amended) A molecular compound selected from the group consisting of hydrates, solvates, adducts and clathrate compounds prepared by the method of reacting a phenol derivative represented by Formula (IV)



wherein A is selected from the group consisting of



wherein w is 0, 1 or 2 and u is 0 or 1; R₁₈, R₁₉, R₂₁ and R₂₄ are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons; R₁₇ is selected from the group consisting of

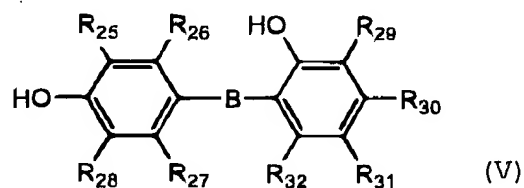


wherein Y and Z are selected from the group consisting of alkyl having 1 to 6 carbons, alkenyl

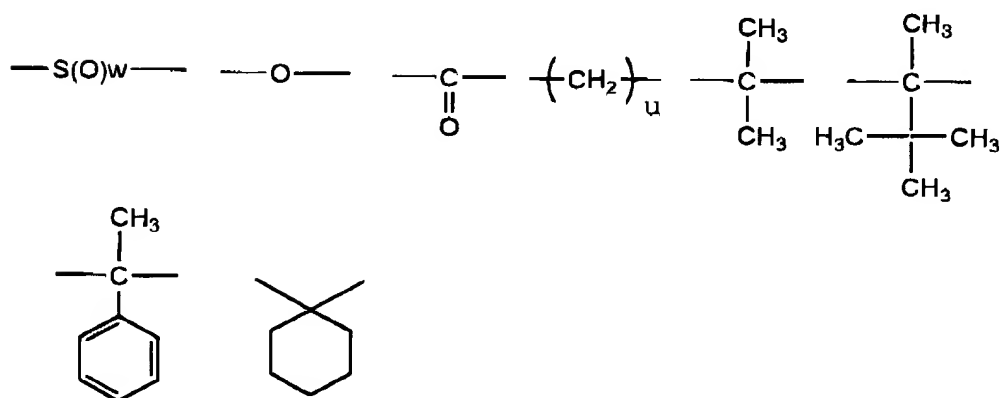
having 2 to 6 carbons, cyclohexyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, cyclopentyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, phenyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or halogen, benzyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, phenethyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, α -methylbenzyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, or naphthyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, and R_{20} , R_{22} and R_{23} are same or different, hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons or the same groups as those for R_{17} , and

an organic compound, as the other reactant under conditions sufficient to form [a] the molecular compound selected from the group consisting of hydrates, solvates, adducts and clathrate compounds having the phenol derivative as a constituent, the constituent being a host.

3. (Amended) A molecular compound selected from the group consisting of hydrates, solvates, adducts and clathrate compounds prepared by the method of reacting a phenol derivative represented by Formula (V)

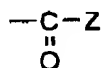


wherein B is a group selected from

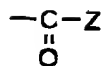


wherein w is 0, 1 or 2 and u is 0 or 1; R_{26} , R_{27} , R_{30} and R_{32} are same or different selected from

the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons; R_{25} , R_{28} , R_{29} and R_{31} are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons or

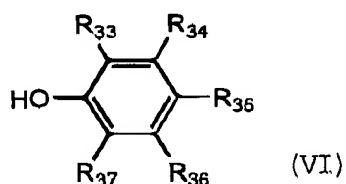


wherein Y and Z are selected from the group consisting of alkyl having 1 to 6 carbons, alkenyl having 2 to 6 carbons, cyclohexyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, cyclopentyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, phenyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or halogen, benzyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, phenethyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, α -methylbenzyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, or naphthyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, and at least one of R_{25} , R_{28} and R_{29} is selected from the group consisting of



wherein Y and Z are selected from the group consisting of alkyl having 1 to 6 carbons, alkenyl having 2 to 6 carbons, cyclohexyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, cyclopentyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, phenyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or halogen, benzyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, phenethyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, α -methylbenzyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, or naphthyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, and an organic compound as the second reactant under conditions sufficient to form [a] the molecular compound selected from the group consisting of hydrates, solvates, adducts and clathrate compounds having the phenol derivative as a constituent, the constituent being a host.

4. (Amended) A molecular compound selected from the group consisting of hydrates, solvates, adducts and clathrate compounds prepared by the method of reacting a phenol derivative represented by Formula (VI)



wherein R_{33} is selected from the group consisting of



wherein Y and Z are selected from the group consisting of alkyl having 1 to 6 carbons, alkenyl having 2 to 6 carbons, cyclohexyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, cyclopentyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, phenyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or halogen, benzyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, phenethyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons

or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

α -methylbenzyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, or naphthyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, and R_{34} , R_{35} , R_{36} and R_{37} are same or different selected from the group consisting of hydrogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl, halogen or the same groups as those for R_{33} , with an organic compound as the second reactant under conditions sufficient to form the molecular compound selected from the group consisting of hydrates, solvates, adducts and clathrate compounds having the phenol derivative as a constituent, the constituent being a host.